



US006292440B1

(12) **United States Patent**
Lee

(10) Patent No.: US 6,292,440 B1
(45) Date of Patent: Sep. 18, 2001

(54) MP3 CAR PLAYER

(75) Inventor: Sang-Hun Lee, Seoul (KR)

(73) Assignee: IDS Corporation, Seoul (KR)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/419,177

(22) Filed: **Oct. 15, 1999**

(30) Foreign Application Priority Data

Nov. 2, 1998 (KR) 98-46785

(51) Int. Cl.⁷ H04H 9/00

(52) U.S. Cl. 369/7

(58) **Field of Search** 369/7, 6, 1, 2,
369/10, 11, 12, 25, 21

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,061,306 * 5/2000 Buchheim 369/2

FOREIGN PATENT DOCUMENTS

2000105598 * 4/2000 (JP) .

200014944 * 5/2000 (JP).

* cited by examiner

Primary Examiner—Tan Dinh

(74) *Attorney, Agent, or Firm*—Fish & Richardson P.C.

(57) **ABSTRACT**

Disclosed is a MP3 car player which prevents a compact disk (CD) player equipped in a car from discontinuing playing of a CD as a result of bumpy road conditions, etc., is able to use both conventional CDs and MP3 CD-ROMs, and compresses and decompresses audio data at a high compression ratio to enable the recording of 150~200 songs in a single CD-ROM without the loss of sound quality, thereby making use of the expensive CD changer unnecessary. The present invention comprises a file type detector, an MP3 file input unit, a peripheral interface unit, a controller unit, an MP3 decoder, and a digital/analog converter.

5 Claims, 3 Drawing Sheets

